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1A-2	
FIG.	i

FIG. 1A-1

გსისსითს თათითვთვთ ვთსიფითვთ გვიივვითის ისვთისით ვსვვთსვვვთ ისთვვვთვსი თვთვსითვი იისვთისვვი სვთვვვივვების იავიმსსიმტ

840 960 240 99 22 380 魯 2 TARCACAGI CARCIIGACA CCARGGCCRG CRCCTCRGGT TCCCCGRCGG GRRGCCCTTC C R S TOCCARCGGC RATRICGICT RIGAGGGGR AGICICIGCS GGICCIGGI AITICIGCIS CIGGCIGCAG GACIGCCGCI CCAGGCGGCC AAGCGGIICC GIGAIGIGCI GGGCCAIGAG CAGIAI<u>CCGG AICACAIGAG</u> A N C H O A 0 6 0 8 1 8 6 G K CCTGGTGTTC CCCRGRTGCC RGRRGGRRGR GATTIGGAGE IGGETICIGA CCCGIAIGIC IACAACIGGA CCACAGGGG AGACGAIGAG GACIGGGAAG ACAACACCAG ACTIGGICAG TATTITCAAR AGCTGGGTCA ATRCATICCC ATCTCCARAG TGARGGCGT PRCQKED 0 U E O N T S l U F 3 0 0 P U TSOS PALUGS HITFUUH ACCORCCOR GRARIGGARC TICOTCIACO ICTICCACAC ACCAGIGATI CACCGGCCTI GGIGGGIICC AAIAICACCI ICGIAGIGAA GARTGGGRTG RACACCIGIA AGGICATGGA AGTGATTGTC TITCGAAGAC ACGGCCGGGC OLEL ASO PYU YNU I 16A CARTIACGIO CCIGOICTIC AGRIGARAT H 3 0

2320

gatactcatt aaaaagacag tetattaaaa aaaaaaaaa

1080	1200		1320		1440		1560		1680		1800		1920		2040	:	2160		2280
AICACACIII GARICACACG IRIGIGCICA RIGGARCCII CARCIIIRAC CICACCGIGC ARACIGCAGI GCCGGGACCA	CTICGCCIGC RICTICGCCT ICRCCCRCRT IRICARCACC IRGICCCICI TIRRIGCCIR CIGGCIRCAR RICCATGGRG	SPR SSP SPIL STP SPS LHPT GYK SHE	ATGGITACIT CAGAGCCACC ATCACAATIG TAGATGGAAT CC"AGAAGTC AACATCATCC AGGTAGCAGA TGTCCCAATC	GYF RATIITU OGILEU KIIQUAOUPI	TGACCIGCAA AGGGGCCACI CCCACGGAAS CCTGIACGAI CAICICIGAC CCCACCIGCC AGAICGCCCA GAACAGGGIG	ICK GAT PIER CII ISO PICO IRONAU	TGAGGAGAGC CTICAATGGG ICCGGCACGI ACTGIGIGAA ITTCACICIG GGAGACGATG CAAGCCIGGC CCICACCAGC	RRR FNG SGTY CUN FIL GOOR SLA LIS	TORGRACAGI GRATGGIGIC CIGRICICCA ITGGCTGCCT GGCCRTGTIT GICRCCATGG TIRCCRICIT GCTGTRCARR	RIU KGU LISI GCL ARF UTRU TIL LYK	ACGIGGICAA GGCCAAAGGC CIGAGIGIII IICICAGCCA IGCAAAAGCC CCGIICICC GAGGAGACCG GGAGAAGGAI	UUK GKG LSUF LSH AKA PFSA GOR EKO	eteteoette igaetgggaa eecaetette igigeaigia igiqaatigi geagaaqiae olgaetggia getgiigiti		tglogilaat iggcallita gigaogggal gggaogocog tatticiteg calciglati giggittita tacigitaat		cigatoatta aggiaalagg tlaaatggga gaggatgaaa caggataatt agattiataa acoagatgig aatgoocaa		teageteatt gaacataeet gagegeetga tggaattata atggaaceaa gettgitgta tggtgigtgt gtgtaealaa
CARCITIARC CIC	THETCCCTCT TIR	SPSL	T CCYRGRAGIC RAC	LEUR	T CRICICIGRC CCC	1 S D P	A TITCACTCTG GGA	r 1 6	T GGCCATGIII GIC	A H F U	R TGCARARGCC CCC	R R P	o tglqoqctqt gcc		g totticiting cat		c coggeteett og		o atggaaccaa gci
ATGGARCCTI	TATCARCACC	S 1 P	TAGATGGAAT	9 0	CCTGTACGRI	ر 1 - 3	ACTGTGTGR	N 0	116601600	ניני	TTCTCAGCCI	. S	tatacotat))	იაინიინნნ		gaggat gcc		tggaattat
TATGTGCTCR	ז ט נ מ זכמככמכאז	S P T L	ATCACAATTG	n - 1 -	СССЯСССЯВ	P - E - R	TCCGGCACGT	4 1 9 S	CTGATCTCCA	1 5 1	C168616111	LSUF	cccactette		gtgaagggat		i ttaactggga		gagagaatga
GARICACACG	RICTICGCCT	S S P		E GE GE	N RGGGGCCACT	G A T	CITCARIGGG	9 H	GARTGGTGTC)) X	SGCRARGGC		: (gactgggaa		t tggcotttta		ანიეთენნი თ		l goacatacct
	0910000110	SPR	RIGGITACTI																
TOGRACITIG GGGRCARCRC TGGCCTGTTT GTCTCCAACA	TOCCCCTCRC CCRCRCCTTC GCCTTCTTCT TCGRCTTCTC	CPSP TPS PSS STSP	я втяяясяся	SOI SHEHCRIHRY	CCCACACIGC ACCCIGACAA CICACIGAIG GACTICAIIG	PTLQ PON SLN OFIU	GCRGCCCCG IGGCIGIGGR IGAGCIGIGG CICCIGICCG	CSPURUO ELC LLSU	GCCCTGATCT CTATCCCTGG CAAAGACCTA GGCTCCCCTC	0 S 9	ARRCRCRAGA CGIACAAGCC ARIAGGAAAC IGCACCAGGA	KHKI YKP IGH CIRH	CCACTGCICC RGGACARGCC ATGGATGCTC TANGLETTCO		tclacggatt attglasset gratatcatg gittagggag		იმშშეშში იიც შემციც მიიმშმშმიმ მშშმიშმციი		gclogiccig acciaoogge coigciicoi coociciole
1100001111	. 60CTTCTTC1	P S S	RARCTGCCGF	Σ S	CTCACTGAT	2 L II	100001010	بر ر	CARAGACCT	7 0	: ARTAGGRARI	H 9 -	C ATGGATGCT	ת עור	gtatateat		ინნნნნიინ ე		c cotgetteo
GGGRCRACRC	CCACACCTTC	- P S	TTCCARTGR	S	. RGCCTGRCRR	H 0 H	3 1000 101008	1 R U 0	CIRTCCCTGC	9 d	CETACAACCE	٦ ۲ ۲	HGGACARGC	PLLOOKP UNL.	t attgtoooot		o cattglgte:		g acctaoagg.
TGGAACTTTG	TECECETCAC	C P S P	CTGAGTGACA	1 0 5 7	CCCACACTGC	P 1 L Q	TGCAGCCCG	U S P U	CCCTGATCT	S - 7 - 8	RARCACABGE	H H H	CCACTGCICC	ן ר ר ל	tctacggatt		ogggt gggck	,	gclogicci

3/18 poly A signal is position 111614-111619 translation start (ATG) is: cDNA: 92 Gene: 83385 FIG. 1B 162 152 144 176 157 318 99 103 209 94 BAC Stop cDNA Start cDNA Stop Exon Length 162 314 458 634 791 1109 1208 1311 1520 1614 2656 163 315 459 635 792 1110 1209 1312 1521 90839 93594 96665 97300 104515 83455 89986 103142 106702 111633 110141 83294 89834 90696 93419 96509 96509 **BAC Start** 104413 110048 106494 EXON 7645978621

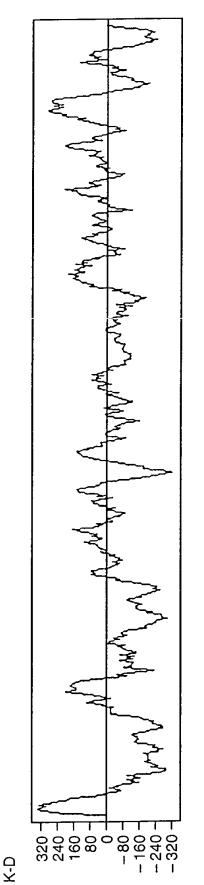


FIG. 1C

FIG. 2A-2

FIG. 2A-3

FIG. 2A-4

FIG. 2A-5

FIG. 2A

FIG. 2A-1

rat	ATGGAAAGTC	ATGGAAAGTC TCTGCGGGGT	CCTGGTATTT	CTGCTGCTGG	CTGCAGGACT	GCCGCTCCAG	CCTGGTATIT CTGCTGCTGG CTGCAGGACT GCCGCTCCAG GCGGCCAAGC GGTTC	75
mouse	ATGGAAAGTC	ATGGAAAGTC TCTGCGGGGT	CCTGGGATTT	crccrccrcc	CTGCAGGACT	GCCTCTCCAG	CCTGGGATTT CTGCTGCTGG CTGCAGGACT GCCTCTCCAG GCTGCCAAGC GATTT	75
human		ATGGAAAGTC TCTACTATTT	CCTGGGATTT	crecrecese	CTGCAAGATT	GCCACTTGAT	CCTGGGATTT CTGCTCCTGG CTGCAAGATT GCCACTTGAT GCCCCCAAAC GATTT	75
rat	CGTGATGTGC	CGTGATGTGC TGGGCCATGA	GCAGTATCCG	GATCACATGA	GGGAGAACAA	CCAATTACGT	GCAGTATCCG GATCACATGA GGGAGAACAA CCAATTACGT GGCTGGTCTT CAGAT	150
mouse		CGTGATGTGC TGGGCCATGA	ACAGTATCCC	GATCACATGA	GAGAGCACAA	CCAATTACGT	ACAGTATCCC GATCACATGA GAGAGCACAA CCAATTACGT GGCTGGTCTT CGGAT	150
human		CATGATGTGC TGGGCAATGA	AAGACCTTCT	GCTTACATGA	GGGAGCACAA	TCAATTAAAT	AAGACCTTCT GCTTACATGA GGGAGCACAA TCAATTAAAT GGCTGGTCTT CTGAT	150
rat	GAAAATGAAT	GAAAATGAAT GGGATGAACA	GCTGTATCCA	GTGTGGAGGA	GGGGAGAGGG	CAGATGGAAG	GCTGTATCCA GTGTGGAGGA GGGGAGGGG CAGATGGAAG GACTCCTGGG AAGGA	225
mouse	GAAAATGAAT	GAAAATGAAT GGGATGAACA	CCTGTATCCA	GTGTGGAGGA	GGGGAGACGG	CAGGTGGAAG	CCTGTATCCA GTGTGGAGGA GGGGAGGACGG CAGGTGGAAG GACTCCTGGG AAGGA	225
human		GAAAATGACT GGAATGAAAA		GTGTGGAAGC	GGGGAGACAT	GAGGTGGAAA	ACTCTACCCA GTGTGGAAGC GGGGAGACAT GAGGTGGAAA AACTCCTGGA AGGGA	225
rat	GCCGTGTGC	GCCCGTGTGC AGGCAGCCCT		TCACCGGCCT	TGGTGGGTTC	CAATATCACC	AACCAGTGAT TCACCGGCCT TGGTGGGTTC CAATATCACC TTCGTAGTGA ACCTG	300
mouse	mouse GGCCGTGTGC AGGCAGTCCT	AGGCAGTCCT		TCACCGGCTC	TGGTGGGTTC	CAATATCACT	GACCAGTGAC TCACCGGCTC TGGTGGGTTC CAATATCACT TTTGTGGTGA ACCTG	300
human		GGCCGTGTGC AGGCGGTCCT		TCACCAGCCC	TCGTGGGCTC	AAATATAACA	GACCAGTGAC TCACCAGCCC TCGTGGGCTC AAATATAACA TTTGCGGTGA ACCTG	300

rat mouse human	CTGAAAGACG GTGAAAGATG GTGAAAGATG	GTGAAAGACG TGTATGTGAT AACAGATCAG ATCCCTATAT GTGAAAGATG TGTATGTGAT AACAGATCAG ATCCCTGTAT GTGAAAGATG TGTACGTGGT AACAGATCAG ATTCCTGTGT	AACAGATCAG AACAGATCAG AACAGATCAG	ATCCCTATAT ATCCCTGTAT ATTCCTGTGT	TCGTGACCAT TCGTGACCAT TTGTGACTAT	GTACCAGAAG GTCCCAGAAG GTTCCAGAAG	GTGAAAGACG TGTATGTGAT AACAGATCAG ATCCCTATAT TCGTGACCAT GTACCAGAAG AATGACGGGA ACTCG GTGAAAGATG TGTATGTGAT AACAGATCAG ATCCCTGTAT TCGTGACCAT GTCCCAGAAG AATGACAGGA ACTTG GTGAAAGATG TGTACGTGGT AACAGATCAG ATTCCTGTGT TTGTGACTAT GTTCCAGAAG AACGATCGAA ATTCA	750 750 750 750 750 750	
rat mouse human	TCTGATGAAA TCTGATGAGA TCCGACGAAA	TCTGATGAAA CCTTCCTCAG AGACCTCCCC ATTTTCTTCG ATGTCCTCAT TCTGATGAGA TCTTCCTCAG AGACCTCCCC ATGTCTTCG ATGTCCTCAT TCCGACGAAA CCTTCCTCAA AGATCTCCCC ATTATGTTTG ATGTCCTGAT	AGACCTCCCC AGACCTCCCC AGATCTCCCC	ATTTTCTTCG ATCGTCTTCG ATTATGTTTG	ATGTCCTCAT ATGTCCTCAT ATGTCCTGAT	TCACGATCCC TCATGATCCC TCATGATCCT	TCTGATGAAA CCTTCCTCAG AGACCTCCCC ATTTTCTTCG ATGTCCTCAT TCACGATCCC AGTCATTTCC TCAAC TCTGATGAGA TCTTCCTCAG AGACCTCCCC ATGTCTTCG ATGTCCTCAT TCATGATCCC AGCCACTTCC TCAAC TCCGACGAAA CCTTCCTCAA AGATCTCCCC ATTATGTTTG ATGTCCTGAT TCATGATCCT AGCCACTTCC TCAAT	AC 825 AC 825 AT 825	
rat mouse human	TACTCTGCCA GACTCTGCCA TATTCTACCA	TACTCTGCCA TITCCTACAA GTGGAACTTT GGGGACAACA CTGGCCTGTT TGTCTCCAAC AATCACACTT GACTCTGCCA TITCCTACAA GTGGAACTTT GGGGACAACA CTGGCCTGTT TGTCTCCAAC AATCACACTT TAITCTACCA TTAACTACAA GTGGAGCTTC GGGGATAATA CTGGCCTGTT TGTTTCCACC AATCATACTG	GTGGAACTTT GTGGAACTTT GTGGAGCTTC	GGGGACAACA GGGGACAACA GGGGATAATA	CTGGCCTGTT CTGGCCTGTT CTGGCCTGTT	TGTCTCCAAC TGTCTCCAAC TGTTTCCACC	TACTCTGCCA TTTCCTACAA GTGGAACTTT GGGGACAACA CTGGCCTGTT TGTCTCCAAC AATCACACTT TGAAT GACTCTGCCA TTTCCTACAA GTGGAACTTT GGGGACAACA CTGGCCTGTT TGTCTCCAAC AATCACACTT TGAAT TATTCTACCA TTAACTACAA GTGGAGCTTC GGGGATAATA CTGGCCTGTT TGTTTCCACC AATCATACTG TGAAT	AT 900 AT 900 AT 900	
rat mouse human		CACACGTATG TGCTCAATGG AACCTTCAAC TTTAACCTCA CCGTGCAAAC TGCAGTGCCG GGCACACTTATG TGCTCAATGG AACCTTCAAC CTTAACCTCA CCGTGCAAAC TGCAGTGCCC GGCACACGTATG TGCTCAATGG AACCTTCAGC CTTAACCTCA CTGTGAAAGC TGCAGCACCA GGACCTTGTC	AACCTTCAAC AACCTTCAAC AACCTTCAGC	TTTAACCTCA CTTAACCTCA CTTAACCTCA	CCGTGCAAAC CCGTGCAAAC CTGTGAAAGC	TGCAGTGCCG TGCAGTGCCC TGCAGCACCA	CACACGTATG TGCTCAATGG AACCTTCAAC TTTAACCTCA CCGTGCAAAC TGCAGTGCCG GGACCA CACACTTATG TGCTCAATGG AACCTTCAAC CTTAACCTCA CCGTGCAAAC TGCAGTGCCC GGGCCA CACACGTATG TGCTCAATGG AACCTTCAGC CTTAACCTCA CTGTGAAAGC TGCAGCACCA GGACCTTGTC CGCCA	CA 966 CA 966 CA 975	
rat mouse human		-TGCC-CC-T CACCCACACC TTCGCCTTCT TCTTCGACTT CTCCTTCGCCTGCA TCTTCGCCTT -TGCC-C-TCCCCC TTCGCCTTCG ACTCCGCCTT CACCTTCAAC TCCGCCCTTA CCTTCGCCCT CCGCCACCAC CACCCAGACC TTCAAAAAA	TTCGCCTTCT TTCGCCTTCG	TCTTCGACTT ACTCCGCCTT	CTCCTTC CACCTTCAAC	GCCTGCA TCCGCCCTTA	-TGCC-CC-T CACCCACACC TTCGCCTTCT TCTTCGACTT CTCCTTCGCCTGCA TCTTCGCCTT CA -TGCC-CTCCCCC TTCGCCTTCG ACTCCGCCTT CACCTTCAAC TCCGCCCTTA CCTTCGCCCT CACCT CCGCCACCAC CACCCAGACC TTCAAA	1029 :cT 1032 :c- 1004	0 0 2

rat mouse	CCCACAT	CCCACAT TATCAACACC TAGTCCCTCT		TTAATGCCTA TTAATGCCTA	CTGGCTACAA	ATCCATGGAG ATCCATGGAG	TTAATGCCTA CTGGCTACAA ATCCATGGAG CTGAGTGACA TTTCC TTAATGCCTA CTGGTTACAA ATCCATGGAG CTGAGTGACA TTTCC	1101
human		CACC		TTAGGACCTG	CTGGTGACAA	ccccragaa	TTAGGACCTG CTGGTGACAA CCCCCTGGAG CTGAGTAGGA TTCCT	1059
rat	AATGAAAACT	GCCGAATAAA	CAGATAAGGT	TACTTCAGAG	CCACCATCAC	AATTGTAGAT	AATGAAAACT GCCGAATAAA CAGATAAGGT TACTTCAGAG CCACCATCAC AATTGTAGAT GGAATCCTAG AAGTC	1176
mouse	AATGAAAACT	GCCGAATAAA	CAGATAAGGC	TACTTCAGAG	CCACCATCAC	AATTGTAGAG	AATGAAAACT GCCGAATAAA CAGATAAGGC TACTTCAGAG CCACCATCAC AATTGTAGAG GGGATCCTGG AAGTC	1182
human	GATGAAAACT	GCCAGATTAA	CAGATAAGGC	TACTTTCAAG	CCACCATCAC	AATTGTAGAG	GATGAAAACT GCCAGATTAA CAGATAAGGC TACTTTCAAG CCACCATCAC AATTGTAGAG GGAATCTTAG AGGTT	1134
rat	AACATCATCC	AGGTAGCAGA	TGTCCCAATC	CCCACACTGC	AGCCTGACAA	CTCACTGATG	AACATCATCC AGGTAGCAGA TGTCCCAATC CCCACACTGC AGCCTGACAA CTCACTGATG GACTTCATTG TGACC	1251
mouse		AGATAGCAGA	TGTCCCCATG	CCCACACCGC	AGCCTGCCAA	CTCCCTGATG	AGCATCATGC AGATAGCAGA TGTCCCCATG CCCACACCGC AGCCTGCCAA CTCCCTGATG GACTTCACTG TGACC	1257
human		AGATGACAGA	CGTCCTGATG	CCGGTGCCAT	GCCTGAAAG	CTCCCTAATA	AACATCATCC AGATGACAGA CGTCCTGATG CCGGTGCCAT GGCCTGAAAG CTCCCTAATA GACTTTGTCG TGACC	1209
rat	TGCAAAGGGG	CCACTCCCAC	GGAAGCCTGT	ACGATCATCT	- CTGACCCCAC	CTGCCAGATC	TGCAAAGGGG CCACTCCCAC GGAAGCCTGT ACGATCATCT CTGACCCCAC CTGCCAGATC GCCCAGAACA GGGTG	1326
monse		CCACCCCCAT	TGCAAAGGGG CCACCCCCAT GGAAGCCTGT	ACGATCATCT		CTGCCAGATC	CCGACCCCAC CTGCCAGATC GCCCAGAACC GGGTC	1332
human		GCATTCCCAC	TGCCAAGGGA GCATTCCCAC GGAGGTCTGT	ACCATCATTT		CTGCGAGATC	CTGACCCCAC CTGCGAGATC ACCCAGAACA CAGTC	1284
rat	TGCAGCCCGG	TGGCTGTGGA	, TGAGCTGTGC	CTCCTGTCCG	; TGAGGAGAGC	CTTCAATGGG	TGCAGCCCGG TGGCTGTGGA TGAGCTGTGC CTCCTGTCCG TGAGGAGGC CTTCAATGGG TCCGGCACGT ACTGT	1401
monse		TGCTGTGGA	TGGGCTGTGC	CTGCTGTCTG	TGAGAAGAGC	CTTCAATGGG	TECAGECECTE TESCTETESA TESSETETES CTSCTSTETS TEASAAGASE CTTCAATGGS TCTGGCACCT ACTST	1407
human	_	TGGATGTGGA	TGAGATGTGT	CTGCTGACTG	; TGAGACGAAC	CTTCAATGGG	TGCAGCCCTG TGGATGTGGA TGAGATGTGT CTGCTGACTG TGAGACGAAC CTTCAATGGG TCTGGGACGT ACTGT	1359

1	ç
	1

mouse GTGAATTTCA CTCTGGGGGA TGATGCAAGC CTGGCCTCA CCAGCACCT GATTCTGTT CCTGACAAGG ACCA 1482 rat GCCTCCCTC TGAGACACAGT GAATGGTGTC CTGATCTCA TTGCTGCT GCCTATTT CTGACACAGG ACCA 1551 mouse GACTCCCTC TGAGACAGT GAATGGTGTC CTGATCTCA TTGCTGCTT GTCACCATGG TTACC 1557 human GCCTCCCCTT TAAGGATGGT GAATGGTGTC CTGATCTCCA TTGCTGCTT GTCACCATGG TTACC 1550 rat ATCTTGCTGT ACAAAAAACA CAAGACGTAC AAGCCAATAG GAACTGCACT GGCTATTTT GTCACTGTG TTACC 1566 mouse ATCTTGCTGT ACAAAAAACA CAAGACGTAC AAGCCAATAG GAACTGCAC CAGGAACGT GTCAAGGGCA AAGGC 1626 mouse ATCTTGCTGT ACAAAAAACA CAAGACGTAC AAGCCAATAG GAACTGCAC CAGGAACGT GTCACAGGCA AAGGC 1567 tat CTGAGTGTTT TTCTCAGCCA TGCAAAAGC CCGTTCTTCC GAGGAACCC GGAGAAGGAT CCACTGCTC AGGAC 1701 mouse CTGAGTGTTT TTCTCAGCCA TGCAAAAGCC CCGTTCTTCC GAGGAACCA GAGGAAGGAT CCACTGCTCC AGGAC 1701 mouse CTGAGTGTTT TTCTCAACCC TGCAAAAGCC CCGTTCTTCC CGGGAACCC GAGGAAGGAT CCACTGCTCC AGGAC 1701 mouse AAGCCAAGGA CACTCTAAA
--

FIG. 2B-1	FIG. 2B-2	FIG. 2B	10)/18	·	
50	50	100	150 150 150	200 200 200	250 250 250	300
NNQLRGWSSD HNQLRGWSSD	HNQLNGWSSD GSNITFVVNL	GSNITFVVNL GSNITFAVNL	DEDWEDNTSQ DGDWEDGTSR DSDGENGTGQ	SARVSINTVN SARVSINTVN SVRVSVNTAN	TMYQKNDRNS TMSQKNDRNL TMFQKNDRNS	LFVSNNHTLN LFVSNNHTLN LFVSTNHTVN
HEQYPDHMRE HEQYPDHMRE	NERPSAYMRE ALTSDSPALV	VLTSDSPALV VLTSDSPALV	YVYNWTTGAD HVYNWTAGAD YVYNWTAWSE	GQYFQKLGQC GQYFQKLGRC GQYFQKLGRC	VITDQIPIFV VITDQIPVFV VVTDQIPVFV	YKWNFGDNTG YKWNFGDNTG YKWSFGDNTG
AAKRERDVLG AAKRERDVLG	AAKKF HUVLG DSWEGGRVQA	DSWEGGRVQA NSWKGGRVQA	RSDLELASDP RNDLGLTSDL RNEAGLSADP	WNFVYVFHTL WSFVYVFHTL WNFIYVFHTL	IPISKVKDVY IPISKVKDVY VPIAQVKDVY	P SHFLNYSAIS P SHFLNDSAIS P SHFLNYSTIN FIG. 2B-1
LLLAAGLPLQ LLLAAGLPLQ	LLLAAKLFLU VWRRGEGRWK	VWRRGDGRWK VWKRGDMRWK	NGNIVYERNC NGNIVYEKNC NGNIVYEKNC	PFPRPHGRKK PFPRPHGWKK PFPHHPGWRR	IVFRRHGRAY TVFRRYGRAY TVYRRHGRAY	IEFDVLIHDP IVFDVLIHDP IMFDVLIHDP
MESLCGVLVF MESLCGVLGF	MECLITFLGF ENEWDEQLYP	ENEWDEHLYP ENDWNEKLYP	VFPRCQKEDA VFPRCQKEDA IFPRCQKEDA	GQHLRFPDGK SQHLRFPDRR SHHNVFPDGK	LTVGPQVMEV LTAGPQVMEV VTLGPQLMEV	SDETFLRDLP SDEIFLRDLP SDETFLKDLP
rat mouse	numan rat	mouse	rat mouse human	rat mouse human	rat mouse human	rat mouse human

rat mouse	HTYVLNGTEN	ENLTVQTAVP LNLTVOTAVP	GPCPSPTPS- GPCPPPSPST	-PSSSTSPSP PPSPSTSPSP	ASSPSPTLST SPSPI,PTLST	348
human	HTYVLNGTFS	LNLTVKAAAP	GPCPPPP	PPRP	XS	334
rat	PSPSLMPTGY	KSMELSDISN	ENCRINRYGY	FRATITIVDG	ILEVNIIQVA	398
mouse	PSPSLMPTGY	KSMELSDISN	ENCRINRYGY	FRATITIVEG	ILEVSIMQIA	400
human	PTPSLGPAGD	NPLELSRIPD	ENCQINRYGH	FQATITIVEG	i levni iqmt	384
rat	DVPIPTLQPD	NSLMDFIVTC	KGATPTEACT	IISDPTCQIA	QNRVCSPVAV	448
monse	DVPMPTPQPA	NSLMDFTVTC	KGATPMEACT	IISDPTCQIA	QNRVCSPVAV	450
human	DVLMPVPWPE	SSLIDEVVTC	QGSIPTEVCT	IISDPTCEIT	QNTVCSPVDV	434
rat	DELCLLSVRR	AFNGSGTYCV	NFTLGDDASL	ALTSALISIP	GKDLGSPLRT	4 98
mouse	DGLCLLSVRR	AFNGSGTYCV	NFTLGDDASL	ALTSTLISIP	GKDPDSPLRA	200
human	DEMCLLTVRR	TFNGSGTYCV	NLTLGDDTSL	ALTSTLISVP	DRDPASPLRM	484
rat	VNGVLISIGC	LAMEVTMVTI	LLYKKHKTYK	PIGNCTRNVV	KGKGLSVFLS	548
mouse	VNGVLISIGC	LAVLVTMVTI	LLYKKHKAYK	PIGNCPRNTV	KGKGLSVLLS	550
human	ANSALISVGC	LAIFVTVISL	LVYKKHKEYN	PIENSPGNVV	RSKGLSVFLN	534
rat	HAKAPFSRGD	REKDPLLQDK	PWML 57	~ 1		
mouse	HAKAPFFRGD	QEKDPLLQDK	PRTL 574	c t		
human	RAKAVFFPGN	QEKDPLLKNQ	EFKGVS 560	ט בוכ טם ט	C	

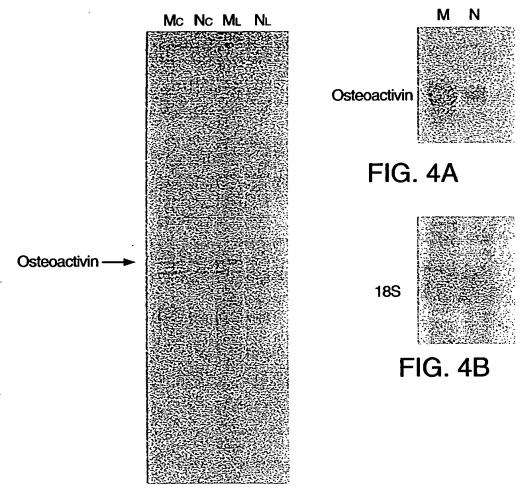


FIG. 3

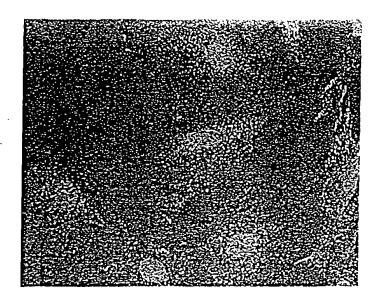


FIG. 5

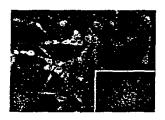


FIG. 5A

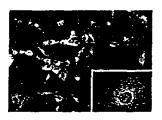


FIG. 5B

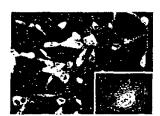


FIG. 5C

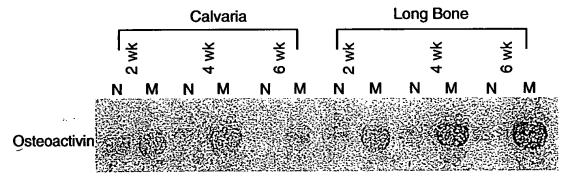
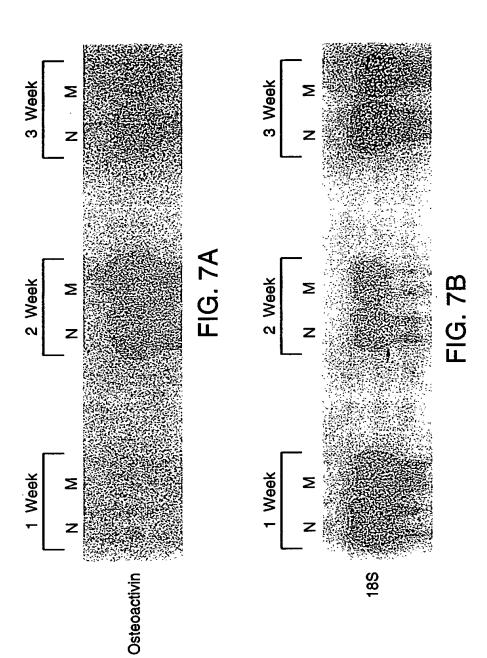


FIG. 6

15/18



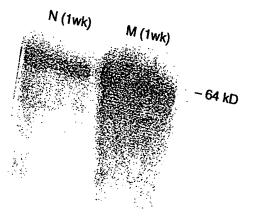
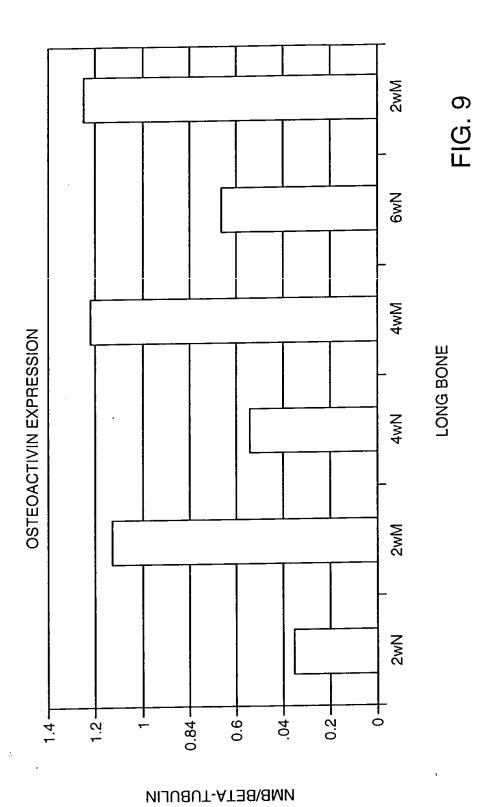


FIG. 8





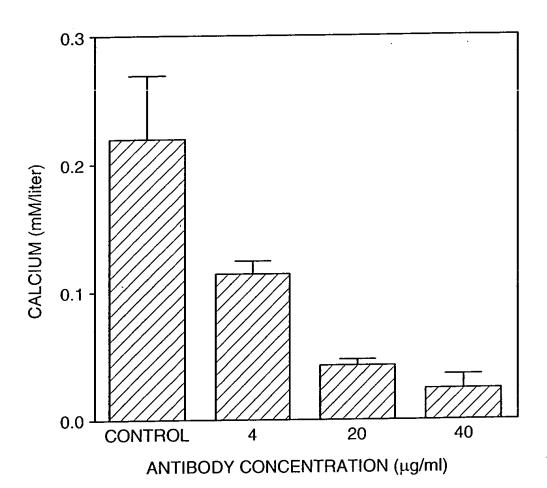


FIG. 10